RUDNEVA, A.V.; MALYSHEVA, T.Ya.; SOKOLOV, G.A.; GUL'TYAY, I.I.;
Prinimali uchastiye: GALATONOV, A.L.; GAMAYUROV, A.I.;
BABARYKIN, N.N.; KOSTIN, I.M.

Changes in the material composition of industrial sinter along the cake height. Stal' 22 no.1:5-9 Ja '62. (MIRA 14:12)

1. Institut metallurgii imeni A.A. Baykova (for Rudneva, Malysheva, Sokolov, Gul'tyay). 2. Magnitogorskiy metallurgicheskiy kombinat (for Galatonov, Gamayurov, Babarykin, Kostin).
(Sintering)

ZUDIN, V.M.; YAKOBSON, A.P.; KOSTIN, I.M.; GALATONOV, A.L.; GAMAYUROV, A.I.; TSVERLING, A.L.; MALYSHEVA, T.Ya.; SOKOLOV, G.A.; RUDNEVA, A.V.; TSYLEV, L.M.; GUL'TYAY, I.I.

Effect of the sintering temperature on the mineralogical composition of sinter and its metallurgical properties. Stal' 23 no.6:481-485 Je '63. (MIRA 16:10)

1. Magnitogorskiy metallurgicheskiy kombinat i Institut metallurgii im. A.A.Baykova.

AKATOV, A.I.; KOSTIN, I.M.

Ways of improving the operation of an ore washing and dressing plant. Gor. zhur. no.2:63-66 F '65. (MIRA 18:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektnyy institut mekhanicheskoy obrabotki poleznykh iskopayemykh, Leningrad (for Akatov). 2. Magnitogorskiy metallurgicheskiy kombinat (for Kostin).

VARLAMOV, N.A.; KOSTIN, I.M., kand. tekhn. nauk; SHOKHIN, V.P., kand. tekhn. nauk

Centrifugal dressing of oxidized iron ores in hydraulic cyclones. Biul. tekh.-ekon. inform. Gos. nauch.-issl. inst. nauch. i tekh. inform. 17 no.8:7-8 Ag '64.

(MIRA 17:11)

KOSTIN, Ivan (selo Shpit'ki, Kiyevo-Svyatoshinskogo rayona, Kiyevskaya oblast')

A collective farm orchard. Nauka i zhyttia 8 no.11:42-44 N '58. (MIRA 13:5)
(Kiev--Svyatoshino District--Fruit culture)

SOLOV'YEV, V.V., kandidat sel'skokhozyaystvennykh nauk; KOSTIN, I.S., kandidat tekhnicheskikh nauk.

Effectiveness of saturation irrigation and organomineral fertilizers for winter wheat in the trans-Volga region. Dokl.Akad. sel'khoz. 21 no.5:40-42 '47. (MLRA 9:8)

1. Engel'skaya opytno-meliorativnaya stantsiya. Predstavlena akademikom A.N. Kostyakovym.
(Volga Valley--Wheat) (Irrigation) (Fertilizers and manures)

KOSTIN, I. S.

USSR/Geophysics - Canals Jun 51

"Union of the Volga and Don Rivers," I. S. Kostin, Cand Tech Sci

"Gidrotekh i Melioratsiya" No 6, pp 3-16

Describes past and present (1598 - 1951) attempts and proposals to connect the Volga and Don Rivers. Maps show locations of canals planned in 1950 by the Soviet of Ministers USSR. In Aug 50 the Soviet decreed construction on the Volga of the Kuybyshev and Stalingrad Hydroelec Power Plants of total output of 2,1010 kwh, by which 14 billion hectares of kolkhoz and sovkhoz land along the Volga and Caspian

186T30

USSR/Geophysics - Canals (Contd) Jun 51

will be irrigated. In Dec 50 the Soviet speeded up construction of the Volga-Don ship-going canal and irrigation of land in the Rostov and Stalingrad regions. Maps show reservoirs, dams, power plants, areas to be irrigated, afforestation along the canals, forest belts, and railroads in Stalingrad region, described here.

186T30

KOSTEN, I.S.

Irrigation

Better use of reservoirs for irrigation. Les. i step' 4, no. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, DECEMBER 1952 ~~1953~~, Uncl.

1. KOSTIN, I. S.

2. USSR (600)

4. Saratov Province - Rice

7. Rice in the Transvolga region. Dost. sel'khoz. no. 5, '52.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

1. KOSTIN, I. S.

2. USSR (600)

4. Irrigation

7. Seasonal regulation of reservoirs and a variable system of irrigation, Gidr. i mel., 5, no. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

KOSTIN, I.S.; SYRKIN, V.G.

Some economical problems of corn irrigation. Zemledelie 4 no.6: 76-79 Je '56. (MLRA 9:8)

1. Engel'skaya opytno-meliorativnaya stantsiya.
(Corn (Maize)) (Irrigation farming)

KOSTIN, I. S.

SOLOV'YEV, V. V., Cand. Agri. Sci., and KOSTIN, I. S., Cand. Tech. Sci.

"Effektivnost' vlagozaryadochnogo orosheniya i organo-mineral'nykh udobreniy pod ozimuyu pshenitsu v usloviyakh zavolzh'ya", Dokl. vses. ord. Lenina akad. Sel'skokh. nauk im. V. I. Lenin, No 5, pp 40-42, 1956.

KOSTIN, I.S.

Irrigation practices. Zemledelie 26 no.3:39-40 Mr '64.
(MIRA 17:4)

1. Direktor Engel'sskoy opytno-meliorativnoy stantsii, Saratovskoy oblasti.

KOSTIN, I. [illegible] tekhn. nauk

System of irrigation as related to ground water balance.
Gidr. i mel. 17 no.5:5-12 My '65. (MIRA 18:7)

1. Engel'sskaya opytno-meliorativnaya stantsiya.

CHUMAREV, V.M.; OKUNEV, A.I.; DONCHENKO, P.A.; KOSTIN, I.Ye.

Effect of enriching the blow by oxygen on the rate of zinc and lead sublimation from slags (industrial testing). TSvet.met. 38 no.7:41-46 Jl '65. (MIRA 18:8)

KOSTIN, K. (Krivoy Rog)

Jet piercing machine. Tekh.mol. 29 no.6:9 '61. (MIRA 14:7)
(Boring)

KOSTIN, K. (Moskva)

All-in-one roof and walls. Tekh.mol. 29 no.8:15 '61.
(MIRA 14:11)
(Domes)

KOSTIN, K.

Organizing continuous maintenance of automobiles. Avt.transp. 40 no.4:19-21 Ap '62. (MIRA 15:4)

1. Leningradskiy filial Nauchno-issledovatel'skogo instituta avtomobil'nogo transporta.
(Automobiles—Maintenance and repair)

KOSTIN, K., inzhener.

Stand for the hydraulic testing of cylinder blocks. Avt.transp. 42 no.9:33 S '54. (MLRA 7:11)
(Gas and oil engines--Testing)

Kostin K

GIRGOR'YEV, G.; KOSTIN, K.

Against attempts to revise Marxist political economy. Vop.ekon. no.4:150-154 Ap '57. (MLRA 10:5)
(Germany, East--Economics--Study and teaching)

KOSTIN, K.

Progressive methods in bank work. Den. i kred.15 no.1:40-43 Ja '57.
(MLRA 10:3)
(Bank and banking)

KOSTIN, K.; KOROTKOV, V.

Questions and answers. Okhr.truda i sots.strakh. 3 no.3:67-68 Mr '60. (MIRA 13:7)
(Women--Employment)
(Employees, Dismissal of)

KOSTIN, K., inzhener.

Using liners to repair brake drums on the ZIS-5. Avt.transp. 32 no.3:36 Mr '54. (MLRA 7:8)
(Brakes)

KOSTIN, K.

Keeping records on payments to machine-tractor station workers. Bukhg. uchet. 15 no.11:23-26 N '56. (MLRA 9:12)

(Machine-tractor stations--Accounting)
(Wages)

KOSTIN, K.A., starshiy inzh.; SARKHASH'YAN, G.N., otv. za vypusk; KOGAN, F.L., tekhn.red.

[Equipment for the maintenance and repair of automobiles] Prisposobleniia dlia tekhnicheskogo obsluzhivaniia i remonta avtomobilei; iz opyta raboty 2-go Leningradskogo avtobusnogo parka. Moskva, Nauchno-tekhn.izd-vo avtotransp. lit-ry. No.5. 1957. 19 p. (MIRA 12:5)

1. Moscow. Gosudarstvennyy vsesoyuznyy nauchno-issledovatel'skiy institut avtomobil'nogo transporta. Leningradskiy filial.
2. Leningradskiy filial Nauchno-issledovatel'skogo instituta avtomobil'nogo transporta (for Kostin).

KOSTIN, K., inzhener.

Eliminate losses caused by producing minor parts in automotive transportation units. Avt. transp. 35 no.8:7 Ag '57. (MIRA 10:9)
(Automobiles--Maintenance and repair)

KOSTIN, K.A., starshiy insh.; ZUBKOVA, L.A., otv. za vypusk; ZUYEVA, N.K., tekhn.red.

[Making rubber parts for the M-20 "Pobeda" automobile; practices of the Leningrad Automobile Repair Plant] Izgotovlenie detalei iz reziny dlia avtomobilia M-20 "Pobeda"; iz opyta raboty Leningradskogo zavoda po remontu legkovykh avtomobilei. Moskva, Nauchno-tekhn. izd-vo avtotransp.lit-ry, 1958. 14 p. (MIRA 12:6)

1. Moscow. Nauchno-issledovatel'skiy institut avtomobil'nogo transporta. 2. Leningradskiy filial Nauchno-issledovatel'skogo instituta avtomobil'nogo transporta (for Kostin).
(Automobiles--Equipment and supplies) (Rubber goods)

KOSTIN, K.

Peroidicity in the maintenance of "Volga" automobiles. Avt.transp. 38 no.10:22-23 O '60. (MIRA 13:10)

1. Leningradskiy filial Nauchno-issledovatel'skogo instituta avtomobil'nogo transporta.
(Automobiles--Maintenance and repair)

KOSTIN, K.A., inzh.; BOKHAN, I.T., inzh. Prinimali uchastiye: TSIKUN,D.S., tekhnik; TSAGOYKO, N.V., tekhnik; FILIN, A.G., red. izd-va; GALAKTIONOVA, Ye.N., tekhn. red.

[Technical charts for the maintenance of the M-21A automobile, "Volga"] Tekhnologicheskie i postovye karty tekhnicheskogo obsluzhivaniia avtomobilia M-21 "Volga." Moskva, Avtotransizdat, 1961. 150 p. (MIRA 15:1)

1. Moscow. Nauchno-issledovatel'skiy institut avtomobil'nogo transporta. Leningradskiy filial. 2. Otdel tekhnicheskogo obsluzhivaniya i remonta Leningradskogo filiala Nauchno-issledovatel'skogo instituta avtomobil'nogo transporta (for Kostin, Bokhan).
(Automobiles—Maintenance and repair)

DEMCHENKO, V.S.; KOSTIN, K.A.

Methods for evaluating the economic effect of the use of oil additives. Khim. i tekh.topl.i masel 7 no.3:36-41 Mr '62.
(MIRA 15:2)
(Lubrication and lubricants--Additives)

KOSTIN, K.

Suggesting a central lubrication system for "Volga" automobiles. Avt.transp. 41 no.1:20-22 Ja '63. (MIRA 16:2)

1. Leningradskiy filial Nauchno-issledovatel'skogo institute avtomobil'nogo transporta.
(Automobiles--Lubrication)

KOSTIN, K.; MIROKHIN, A.

Units for the lubrication of motor vehicles. Avt.transp. 41 no.2:25-26 F '63. (MIRA 16:2)
(Motor vehicles--Lubrication)

KOSTIN, Konstantin Aleksandrovich. Prinimali uchastiye: BOKHAN, I.T., inzh.; TSIKUN, D.S., tekhnik. GRINBERG, P.I., red.; BODANOVA, A.P., tekhn. red.

[Maintenance of M-21 "Volga" automobiles in automotive transportation units] Tekushchii remont avtomobilei M-21 "Volga" v avtokhoziaistvakh. Moskva, Avtotransizdat, 1963. 47 p. (MIRA 16:6)

(Automobiles--Maintenance and repair)

KOSTIN, Konstantin Aleksandrovich; TSIKUN, Daniil Sergeyevich; KONONOVA, V.S., red.

[Technical repair-shop cards for the maintenance of units of the M-21 "Volga" automobiles] Tekhnologicheskie postovye karty na tekushchii remont agregatov avtomobilei M-21 "Volga." Moskva, Transport, 1965. 164 p. (MIRA 18:7)

KOSTIN, K.F.

PA 41/49T22

USSR/Electricity
Generators
Electric Equipment

Mar 49

"Four Types of Vertical Hydrogenerators of the 'Ural Elektroapparat' Plant," Z. B. Meyman, K. F. Kostin, Engineers, "Ural Elektroapparat" Plant, 6 pp

"Vest Electro-Prom" No 3

Completely describes four series of hydrogenerators -- VGS-1-325, VGS-2-325, VGS-3-260 and VGS-4-213 -- of the vertical type, now manufactured at the "Ural Elektroapparat" Plant. These

41/49T22

USSR/Electricity (Contd)

Mar 49

generators are widely used at USSR hydroelectric stations, especially at stations for electrification of agriculture. Gives illustrations and tables of technical data on hydrogenerators.

41/49T22

KOSTIN, K. F., Eng.

USSR/Electricity - Generators, Hydroelectric
Industrial Production

Jul 50

"Hydroelectric Generators for Rural Electrification," Z. B. Neyman, K. F. Kostin, Engineers, Sverdlovsk

"Elektrichestvo" No 7, pp 16-23

Details technical and economic characteristics of four types of Ural-series hydroelectric generators, VGS-1-325, VGS2-325, VGS-3-260, and VGS-4-213. Authors received Stalin prize for working out constructional data for these machines. Compares Ural-series hydroelectric generators with those of the General Electric Company, and claims Soviet product is superior. Figures quoted were supplied by "Uralelektroapparat" Plant.

PA 164T12

KOSTIN, K.F.

GVOZDEV, V.S.; VAKHRAMEYEV, B.A.; GERMAN, A.L.; KOSTIN, K.F.

[Equipment of agricultural hydroelectric stations] Oborudovanie sel'skokhoziaistvennykh gidroelektricheskikh stantsii. Sverdlovsk, Gos.nauchno-tekhn. izd-vo mashinostroit. i sudostroit.lit-ry [Uralo-Sibirskoe otd-nie] 1953. 231 p. (MLRA 6:12)

(Hydroelectric power stations)

[illegible]

KOSTI , KONSTANTIN FEDOROVICH.

Vertikal'nyye gidrogeneratory dlya sel'skikh GES (Vertical hydraulic generators for rural hydro-electric stations) Moskva, Gosenergoizdat, 1955

126 p. Illus., diagrs., tables

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825220004-8"

KOSTIN, K.F., inzhener.

Hydraulic generators for the Kama Hydroelectric Power Station.
Vest.elektroprom. 27 no.11:30-35 N '56. (MLRA 9:12)

1. Zavod "Uralelektroapparat."
(Electric generators) (Kama Hydroelectric power station)

Kostin K.F.

PHASE I BOOK EXPLOITATION 479

Bezrukov, V.M.; Glukh, Ye. M.; Kostin, K.F.; Neyman, Z.B.; Fishler, Ya. L.; Chetchuyev, G.A.

Ural'skiy zavod elektromashinostroyeniya (The Ural Electrical Machine-building Plant) Moscow, Mashgiz, 1957. 125 p. (Series: Iz istorii mashinostroyeniya na Urale, vyp. 7) 4,000 copies printed.

Tech. Ed.: Dugina, N.A.; Editorial Board of Series: Aleksandrov, A.I., Candidate of Technical Sciences; Bogachev, Doctor of Technical Sciences; Volskov, A.A., Candidate of Historical Sciences; Dovgopol, V.I.; Kozlov, A.G., Senior Scientific Worker, Archives Dept.; Sustavov, M.I., Engineer.

PURPOSE: This book is intended for engineers, technicians and scientists. It can also be of use to students, agitators, propagandists and machine-building workers.

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The Ural Electrical Machine-building Plant 479

COVERAGE: The book contains a brief history of the construction and development of the Ural Electrical Machine-building Plant and a detailed description of the progress achieved in designing and building various kinds of machinery including water-wheel generators, a-c and d-c electrical machines, transformers, high-voltage equipment, mercury-arc rectifiers and machines for the electrification of the national economy. Plans for the future development of the plant and of the production of the electrical industry in general are also discussed. The book is the seventh issued in the series "Iz istorii mashinostroyeniya na Urale" (History of Machine-building in the Urals) which will contain a total of ten books. No personalities are mentioned. There are no references.

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KOSTIN, Konstantin Fedorovich

GVOZDEV, Vlas Semenovich, kand.tekhn.nauk; VAKHRAMEYEV, Boris Alekseyevich, inzh.; GERMAN, Avraam L'vovich, inzh.; KOSTIN, Konstantin Fedorovich, inzh.; LEVINTOV, Samuel' Davidovich, kand.tekhn.nauk; TARASOV, A.S., inzh., retsenzent; YERMAKOV, N.P., tekhn.red.

[The equipment of rural hydroelectric power plants] Oborudovanie sel'skikh gidroelektricheskikh stantsii. Izd. 2-oe, perer. Pod. obshchei redaktsiei V.S.Gvozdeva. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1957. 423 p. (MIRA 11:2)
(Hydroelectric power stations)

SOV/110-58-12-1/22

AUTHOR: Kostin, K.F., Engineer and Neyman, Z.B., Engineer

TITLE: 15 Years of Hydro-Generator Manufacture at the Uralelektroapparat Works (15 Let gidrogeneratorostroyeniya na zavode „Uralelektroapparat„)

PERIODICAL: Vestnik Elektrcpromyshlennosti, 1958, Nr 12, pp 1-7 (USSR)

ABSTRACT: Hydro-generator production commenced in the Urals in 1943 and at present the "Uralelektroapparat" Works manufactures machines in ratings from 160 to 36000 kW for voltages of 400, 6300 and 10500 V at speeds of 68.5 to 600 rpm and is designing others with outputs of some hundreds of megawatts per unit. A photograph of the first hydro-generator manufactured at the works in 1943 is reproduced in Fig 2; it is a 1200 kW, 6300 V, 150 rpm machine for the Alapayevskaya station, where it is still working. At that time the urgent need for new equipment was met by a standardised series of hydro-generators - developed for cheap and easy manufacture. The works designed and manufactured five standardised series of vertical hydro-generators with outputs from 160 to 4000 kW, running at speeds of 100 to 428 rpm. The main characteristics of the five series are briefly

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15 Years of Hydro- Generator Manufacture at the Uralelektroapparat Works

described. All were designed for automatic control and, due to various novel features, were much lighter than previous machines of similar output. A photograph of a typical hydro- generator of the first series is shown in Fig 3. In addition to the standard series, individual designs were produced from 1946. In this year two hydro- generators were manufactured each with an output of 14,400 kW at 10,500 V at a speed of 150 rpm. A special feature of these machines is a cooling system in which the coolers are located in the corners of the square stator frame. Machines of the overhung construction were designed primarily for the use with Kaplan turbines. For instance, a 20-MW, 150 rpm machine of the overhung type with one guide bearing has a total weight of 265 tons, which is 40 tons less than the corresponding machine of suspended type construction, and the height is 1.5 m less. More extensive use is being made of constructions in which the turbine and generator have a common shaft and the thrust bearing

15 Years of Hydro-Generator Manufacture at the Uralelektroapparat Works

is mounted on the turbine casing, the principle is used for the 21 MW, 125 rpm sets for the Kamskaya Station. This type of construction is illustrated in Fig 5. The turbine and generator are still further unified in a horizontal shaft type of machine in which the generator rotor is shrunk on to a wheel that supports the turbine blades whilst the water flows within the rotor. Although these turbines have not performed very well in service, because of a number of constructional defects, their design was a progressive step. In all the machines manufactured in recent years there is only a main exciter and no auxiliary exciter. Methods adopted to improve the mechanical stability of generators running at 300 to 600 rpm are described and illustrated in Fig 6. A number of constructional details that have been developed in recent years are mentioned with particular reference to cooling braking and bearings. The typical lubrication system is briefly described. The works played an active part in the design of alternators for the Volga Power Station imeni Lenin

15 Years of Hydro-Generator Manufacture at the Uralelektroapparat Works

in which ionic exciters were used with success. At the present time the works is designing hydro-generators of some hundreds of megawatts for the Krasnoyarsk Station and their construction is briefly described. The total weight of these machines will be about 1,900 tons and the efficiency 98.25%. There are 7 figures.

SUBMITTED: 30th June 1958

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SOV/105-59-7-1/30

8(5)
AUTHOR: Kostin, K. F., Engineer

TITLE: Development of Hydraulic Power Generator Construction at the "Uralelektroapparat" Works (Razvitiye gidrogeneratorostroyeniya na zavode "Uralelektroapparat")

PERIODICAL: Elektrichestvo, 1959, Nr 7, pp 1 - 8 (USSR)

ABSTRACT: On July 15, 1959 it was 25 years since the plant had been founded, and 16 years since the first hydraulic power generators had been built. The first hydraulic power generators (HG) were built in 1943 and were erected at the Alapayevskaya GES (Alapayevsk Hydroelectric Power Plant). They have a power output of 1200 kw. In 1947 14.5 Mw hydraulic power generators were supplied to the Shirokovskaya GES (Shirokovskaya Hydraulic Power Plant), and from 1953 to 1956, 23 of such generators of 21 Mw each were supplied to the Kamskaya GES (Kama Hydroelectric Power Plant), and in 1958 one of 36 Mw for the Chir-Yurtskaya GES (Chir-Yurt Hydroelectric Power Plant). At present, HG having a power output of 160 to 36000 kw for voltages of 0.4, 6.3, 10.5 kv at from 68.5 to 600 rotations per minute are being produced, and HG having a power output of up to 300 Mw are being projected. The machines were in all cases built according to the plans designed by the works themselves in accordance with the

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latest developments in the USSR as well as in other countries. Construction of HG at the "Uralelektroapparat" plant developed in two directions: series- and single production. A short survey is given of both. Five series of HG with vertical axis and a power output of 160 to 4000 kw, both automatically- and hand-operated, are produced. Several standardizations are mentioned. Standardization of individual building groups was maintained for machines of more than 4000 kw. 68 individual types were produced, which are all fitted with automatic control. They have a complete lubrication system and are water-cooled. Several constructional features are described. A survey is given of large hydraulic power plants intended to be built. Hydraulic power generators of 300 Mw at 100 revolutions per minute are planned for the Krasnoyarskaya GES (Krasnoyarsk Hydraulic Power Plant). Finally, ways and means of reducing costs are pointed out. The following measures are mentioned: Reduction of the maximum number of revolutions, which, in some cases amounts to up to 300% of the nominal figure; limitation of the moment of inertia; reinforcement of thrust bearing on the turbine lid, one single turbine shaft to the upper end of which the generator-rotor is fitted; production of inexpensive insulation

Development of Hydraulic Power Generator Construction at the "Uralelektroapparat" Works SOV/105-59-7-1/30

materials; intensification of the cooling of winding elements; ion-excitation in the case of machines below 100 Mw. There are 4 figures and 1 table.

ASSOCIATION: Zavod "Uralelektroapparat" ("Uralelektroapparat" Plant)

SUBMITTED: March 16, 1959

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AUTHOR: Kostin, K.F., Engineer SOV/110-59-7-7/19

TITLE: Thrust Bearings for Large Hydro-alternators (Podpyatniki dlya moshchnykh gidrogeneratorov)

PERIODICAL: Vestnik elektropromyshlennosti,1959 Nr 7,pp 32-35 (USSR)

ABSTRACT: The article opens with a general account of thrust bearings for hydro-alternators. At present, three designs of thrust bearing are used on large hydro-alternators, namely: a) two rows of rigidly supported pads, each pair of pads resting on a rocking support, as in Fig 1; b) a single row of pads resting on rigid supports with screw adjustment (Fig 2); c) a single row of pads with hydraulic support and automatic equalisation of the loading of each segment (Fig 3). It is commonly assumed that the pads are accurate to 0.02 - 0.03 mm and that this accuracy is maintained in operation. In fact, however, irregular heating causes much greater deformation. Moreover, the white-metal surface becomes deformed in service. Operating experience shows that with the first two types of construction described, the specific loading should not exceed 40 - 45 kg/cm^2 and if loadings of 60 - 65 kg/cm^2 are used the bearings are unreliable. The single and double-row designs are

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equivalent and are satisfactory for loads up to 2000 tons. They are however unlikely to be suitable for higher loads than this or for loadings greater than 40 - 45 kg/cm^2. The requirements are best met by thrust bearings using hydraulic support with thin pads resting on large trapezoidal cushions. These bearings can operate reliably at loadings of 60 - 80 kg/cm^2. The first bearing of this type has been used successfully since 1954 with a total load of 1500 tons and a loading of 60 kg/cm^2. It was tested under various conditions at loadings up to 80 kg/cm^2. Specimens designed for a total load of 2000 tons and loading of 60 kg/cm^2 have been working for about 2 years at a Siberian hydro-electric power station. They have given very satisfactory service. With these bearings the load on each pad is automatically equalised; there is little thermal distortion because the bearing surface is thin, and erection is simple. Standard parts are used, so there will be no special difficulty in making bearings of 5000 - 6000 tons load with loadings of

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70 - 80 kg/cm^2.
There are 3 figures and 1 Soviet reference.

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S/193/60/000/011/013/022
A004/A001

AUTHOR: Kostin, K. F.

TITLE: A Hydraulic Generator of 150 Megawatt

PERIODICAL: Byulleten' tekhniko-ekonomicheskoy informatsii, 1960, No. 11, pp. 36-38

TEXT: In 1960 the "Uralelektroapparat" Plant built a hydraulic generator of 150 megawatt power for the "San'myn'sya" power station (Chinese People's Republic) on the Hwang Ho river. The generator is intended to operate in combination with a vertical hydroturbine manufactured by the Leningradskiy metallicheskiy zavod im. Stalina (Leningrad Metallicheskiy Plant im. Stalin). The hydraulic generator is devised for a voltage of 15,750 v, a speed of 100 rpm and has an efficiency of 98%. The generator is of the vertical umbrella-shaped type, with one guide bearing placed in the central part of the upper cross piece. Apart from the generator three electric machines are seated on the common shaft: the exciter, the sub-exciter and a regulating generator. In an assembled state the generator weighs 1,200 tons, the rotor has a weight of 600 tons. The rotor diameter is 11,900 mm. The outer diameter of the stator body is 14.5 m, while the height of the assembled

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A Hydraulic Generator of 150 Megawatt

S/193/60/000/011/013/022
A004/A001

generator amounts to approximately 10 m. Ventilation is effected in a closed cycle. The air is cooled by a water air-cooler flanged on to the stator body. The oil- and water-coolers are of a special design, which makes it possible to clean them without stopping the running unit. Besides, the design of the air coolers provides for the possibility of carrying off the heat not by water but by leading it directly into the Freon air coolers. The weight of the revolving parts of the assembly, i. e. generator rotor, shaft, turbine wheel, and also the water pressure on the turbine runner are taken up by a step bearing located in the lower load-carrying cross piece. The step bearing, an original design of the "Uralelektroapparat" Plant, has hydraulic bearings with automatic load balancing on each static segment. The total load on the step bearing amounts to 2,000 tons, while the specific loads amount to 65 kg/cm^2. The machine has no solid shaft, but the hollow rotor bushing made of steel possesses on the upper and lower ends hollow extension pieces of welded cast steel. Thus the shaft is replaced by the rotor bushing which is simultaneously the bushing of the step bearing. The air pressure produced by the ventilators comes up to 70 - 75 mm water column, compared to 30 - 40 mm water column in similar generators, which ensures increased cooling. The generator control is fully automated, but an auxiliary manual control is provided for. About 90% of the welded structures of the generator were produced

Card 2/3

KOSTIN, K.F., inzh.

Manufacture of hydrogenerators by the "Uralelektroapparat" factory. Vest. elektroprom. 34 no.2:8-13 F '63. (MIRA 16:2)
(Electric equipment industry)
(Turbogenerators)

KOSTIN, K.F., inzh.

Use of small cranes in the installation of large hydrogenerators. Elek. sta. 34 no.7:74-75 Jl '63.
(MIRA 16:8)

KOSTIN, K.F., inzh.

Principal trends in the hydraulic turbine-generator industry in the Urals. Elektrotekhnika 35 no.9:2-4 S '64. (MIRA 17:11)

KOSTIN, Kh.I.

PISKUNOV, V.Ya., inzhener.

"Scrapers in hydrotechnical construction." D.I.Irodov, Kh.I.Kostin. Reviewed by V.IA.Piskunov. Gidr.i mel.6 no.4:63-64 Ap '54. (MLRA 7:5)
(Scrapers) (Irodov, D.I.) (Kostin, Kh.I.)

KOSTIN, K. I.

KOSTIN, K. I. : "The effect of privious cyclic stresses on the bearing capacity of sturctural steel." Min Higher Education Ukrainian SSR. Odessa Polytechnic Inst. Chair of Machine Parts. Odessa, 1956. (Dissertation for the Degree of Candidate in Technical Science.)

Knizhnaya letopis', No. 31, 1956. Moscow.

OLEYNIK, N.V., kand.tekhn.nauk, dots.; KOSTIN, K.I., kand.tekhn.nauk; PRONIN, V.K., kand.tekhn.nauk, dots.

Fatigue resistance of shafts with lateral holes subjected to bending. Nauch.dokl.vys.shkoly; nauk.i prib. no.2:33-38 '58. (MIRA 12:10)

1. Predstavleno Penzenskim industrial'nym institutom.
(Strength of materials)

OLEYNIK, N.V.; KOSTIN, K.I.

Role of stress concentrations caused by repeated underloading of metals. Nauch.dokl.vys.shkoly; mash. i prib. no.1:78-84 '59. (MIRA 12:8)

1. Stat'ya predstavlena Penzenskim politekhnicheskim institutom.
(Strains and stresses)

KOSTIN, K.K.; SOTNIKOV, V.P.

Mechanization of counting and checking operations in the Novosibirsk Post Office. Vest. sviazi 22 no.1:27-28 Ja '62.
(MIRA 14:12)

1. Nachal'nik Novosibirskogo pochtamta (for Kostin).
2. Glavnyy bukhgalter Novosibirskogo pochtamta (for Sotnikov).
(Novosibirsk—Postal service)

KOSTIN, K. M.

4631. Kak my vyrashchivayem vysokiye vstoychivyyee vrozhay. (Kolkhoz im. lenina, pucheshskogo rayona). Ivanovo, kn. 12D., 1954. 36 2. 20 cm. (Vchastniki Vsesoyas. S-Kh Vystavki). 5.000 eks. 45 K. - (54-58350) p. 631 ot (47.361)

SO: Letopis' Zhurnal'nykh Statey, Vol. 7, 1949

KOSTIN, L.

Distribution according to work in a socialist society. Sov. profsoiuzy 1 no.2:64-72 O '53. (MLRA 6:12)
(Wages)

KOSTIN, L.

Soviet trade unions in the effort to increase labor productivity.
Sots. trud 8 no.10:3-12 O '63. (MIRA 16:12)

1. Prorektor Moskovskoy vysshey zaochnoy shkoly professional'nogo dvizheniya Vsesoyuznogo tsentral'nogo soveta professional'nykh soyuzov.

KOSTIN, L.

Fifty thousand copies of a useless pamphlet ("Why should labor productivity grow faster than wages" by A.Gringauz. Reviewed by L.Kostin). Sov.profsoiuzy 7 no.9:61-62 My '59.
(MIRA 12:8)
(Labor productivity) (Gringauz, A.)

KOSTIN, Leonid Alekseyevich; KOGAN, Ye.L., red.

[Material encouragement of technological progress] Material'noe stimulirovanie tekhnicheskogo progressa. Moskva, Znanie, 1965. 46 p. (Novoe v zhizni, nauke, tekhnike. III Seriia: Ekonomika, no.21) (MIRA 18:10)

KOSTIN, Leonid Alekseyevich; FILATOVA, I.T., red.

[Trade unions and labor productivity during the period of the building of communism] Profsoiuzy i proizvoditel'nost' truda v period postroeniia kommunizma. Moskva, Profizdat, 1964. 175 p. (MIRA 17:5)

KOSTIN, Leonid Alekseyevich, kand.ekon.nauk; GORODENSKIY, L.M., red.; ZHERNOVSKAYA, I.I., tekhred.

[Hidden potentialities for the increase of labor productivity in industry; using the example of the R.S.F.S.R.enterprises] Rezervy rosta proizvoditel'nosti truda v promyshlennosti; na primere predpriiatii RSFSR. Moskva, Ob-vo po rasprostraneniiu polit. i nauchnykh znanii RSFSR, 1959. 51 p. (MIRA 13:2)
(Labor productivity)

KUDRYAVTSEV, A.S., prof., doktor ekonom. nauk, zasl. deyatel' nauki i tekhniki RSFSR; LYASNIKOV, I.A., dots.; KOSTIN, L.A., dots.; PUNSKIY, Ya.M., prof.; PETROCHENKO, P.F., kand. ekonom. nauk; GUR'YANOV, S.Kh., dots.; KURKIN, N.I., st. prepodavatel'; KOTOV, F.I., dots.; REMIZOV, K.S., kand. ekonom. nauk; POLYAKOV, I.A., starshiy prepodavatel'; BEZRUKOV, B.N., retsenzent; KOPYLOVA, L.P., red.; ANDREYEVA, L.S., tekhn. red.

[Labor economics in the U.S.S.R.] Ekonomika truda v SSSR. 2., perer. izd. Moskva, Izd-vo VTsSPS Profizdat, 1961. 623 p. (MIRA 15:2)

(Labor and laboring classes)

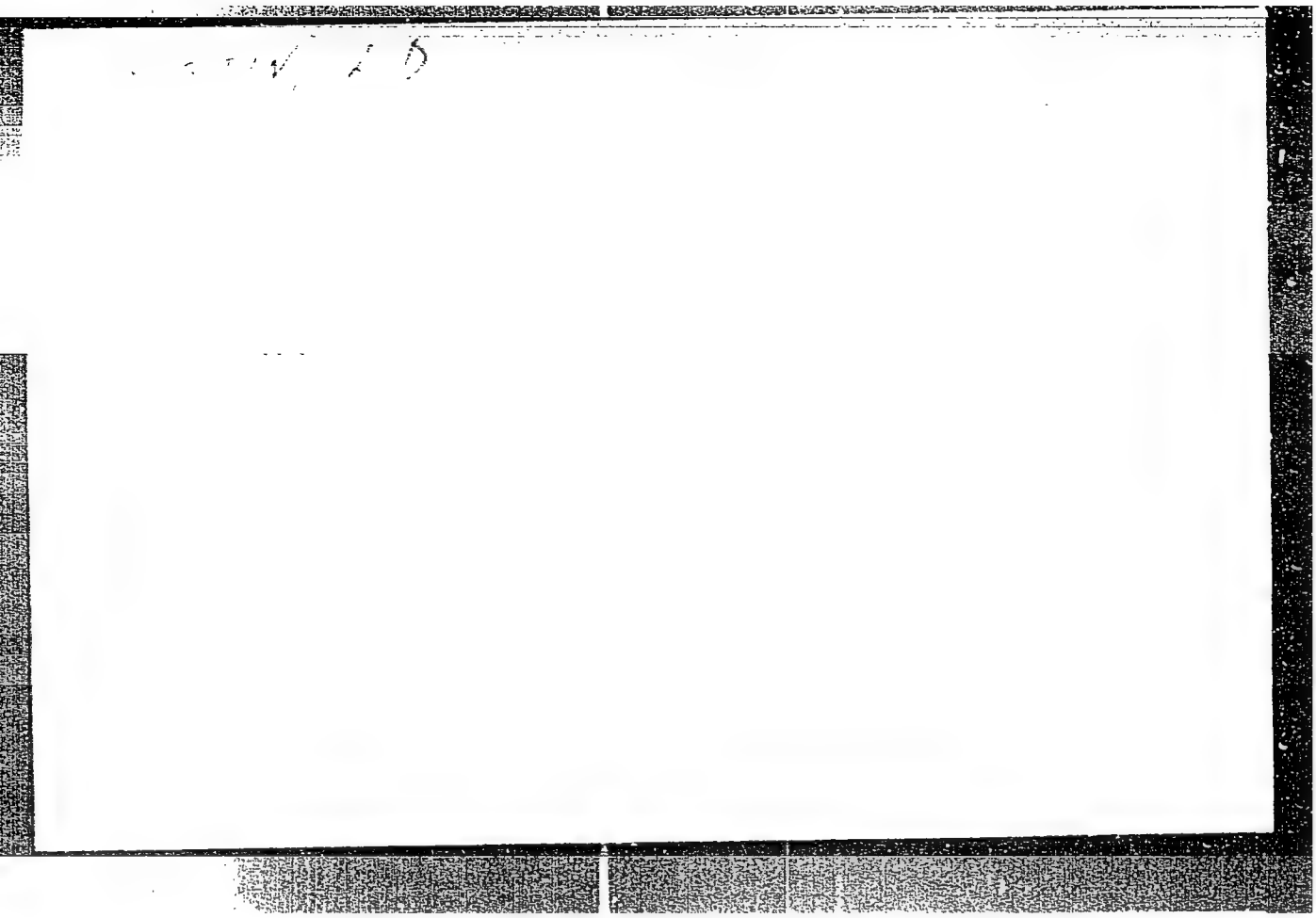
KOSTIN, L., kand.ekon.nauk

There is plenty for us to do. Sov.profsoiuzy 7 no.9:39-42 My '61. (MIRA 14:4)

(Trade unions) (Labor productivity) (Socialist competition)

KOSTIN, L.A.; KUZNETSOV, P.V., red.; PONOMAREVA, A.A., tekhn.red.

[Planning labor productivity in industrial enterprises] Planirovanie proizvoditel'nosti truda na promyshlennykh predpriiatiiakh. Moskva, Gos.izd-vo planovo-ekon.lit-ry, 1961. 77 p. (MIRA 14:12)
(Labor productivity)



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KOSTIN, L.D.

Let's increase the role of the public in landscaping Moscow. Gor. khoz.Mosk. 35 no.4:22-23 Ap '61. (MIRA 14:5)

1. Insturktor Otdela gorodskogo khozyaystva Moskovskogo gorodskogo komiteta Kommunisticheskoy partii Sovetskogo Soyuza.
(Moscow—Landscape architecture)

KOSTIN, L.D., instruktor

Districts' competitions in public services. Gor.khoz.Mosk. 36 no.6:37-38 Je '62. (MIRA 15:8)

1. Moskovskiy gorodskoy komitet Kommunisticheskoy partii Sovetskogo Soyuza.
(Moscow—Landscape architecture)

KOSTIN, L.D.

Advanced practices in garbage removal. Gor. khoz. Mosk. 36 no.10:39 O '62. (MIRA 15:12)
(Refuse and refuse removal)

SHROVATIN, Andrey Ivanovich; KOSTIN, L.G., redaktor; LIBERMAN, S.S., redaktor; ANDREYEV, S.P., tekhnicheskiy redaktor.

[Methods of calculating principal and secondary equipment of rolling mills] Metodika rascheta osnovnogo i vspomogatel'nogo oborudovaniia prokatnykh tsekhov. Khar'kov, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1955. 105 p. (MLRA 9:4)
(Rolling mills)

KOSTIN, L.G., kandidat tekhnicheskikh nauk

"Calculation of basic and conveyor equipment in rolling mills." A.I.Serovatin. Reviewed by L.G.Kostin. Stal' 15 no.7:671-672 Jl '55. (MLRA 8:9)

1. Khar'kovskiy politekhnicheskiy institut.
(Rolling mills)

BEL'GOL'SKIY, Boris Petrovich; STAROSEL'SKIY, Anatoliy Lazarevich; KOSTIN, L.G., otvetstvennyy red.; SIMYAVSKAYA, Ye.K., red.izd-va; ANDREYEV, S.P., tekhn.red.

[Increasing the productivity of rolling mills] Povyshenie proizvoditel'nosti prokatnykh stanov. Khar'kov, Gos. nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1957. 183 p. (MIRA 11:4)
(Rolling mills)

KOSTIN, L-G.

137-58-2-2893

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 98 (USSR)

AUTHOR: Kostin, L.G.

TITLE: Determining Energy Expenditure and Metal Flow in Certain Types of Forging (K voprosu ob opredelenii usiliy i istecheniya metalla pri nekotorykh vidakh kovki)

PERIODICAL: Tr. Khar'kovsk. politekhn. in-ta, 1957, Vol 11, pp 95-106

ABSTRACT: An analysis is made of the formulas deduced by Ye.P. Unksov for calculating the changes of shape and expenditures of energy in the upsetting that occurs in slitting dies and in forging done on underlay hold-down rings.

Ye.L.

1. Metals—Forging—Mathematical analysis

Card 1/1

KOSTIN, L.G.

137-58-2-2896

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 99 (USSR)

AUTHOR: Kostin, L.G.

TITLE: On the Use of Reference Coordinate Grids (O metode koordinatnoy setki)

PERIODICAL: Tr. Khar'kovsk. politekhn. in-ta, 1957, Vol 11, pp 117-119

ABSTRACT: Grid coordinates afford an accurate reflection of metal forgings only in the case of a unidirectional deformation. To avoid error in the case of a complex deformation it is recommended that reference grids be applied to only very small quantitative steps of the deformation.

Ya.O.

1. Metals—Deformation

Card 1/1

KOSTIN, I. G.

PHASE I BOOK EXPLOITATION SOV/5293

Nauchno-tekhnicheskaya konferentsiya po razvitiyu proizvodstvennykh sil Khar'kovskogo ekonomicheskogo administrativnogo rayona, 1958.

Voprosy mashinostroyeniya; trudy konferentsii... (Problems of Machine Building; Transactions of the Scientific Technological Conference on the Development of Productive Forces of the Khar'kov Economic Administrative Region) no. 3. Kiyev, Izd-vo AN UkrSSR, 1960. 182 p. 1,500 copies printed.

Sponsoring Agency: Akademiya nauk Ukrainskoy SSR. Sovet po izucheniyu proizvoditel'nykh sil UkrSSR.

Editorial Board: Resp. Ed.: A.A. Vasilenko, Academician of the Academy of Sciences UkrSSR; A.A. Gorshkov, Corresponding Member, Academy of Sciences UkrSSR; I.M. Postnikov, Doctor of Technical Sciences; S.M. Lutsenko; A.I. Adamenko, Candidate of Technical Sciences; G.M. Daryushov, Candidate of Economical Sciences; Ed. of Publishing House: S.D. Lepkiy; Tech. Ed.: R.A. Bunly.

PURPOSE: This collection of articles is intended for scientific personnel, engineers, technicians, novarkhoz workers, and planning organizations.

COVERAGE: The articles deal with problems in technology and techniques in the manufacture of engines, hydraulic turbines, diesel locomotives, tractors, combines, electrical machinery, etc. Considerable attention is given to the following: the development of various types of equipment used for automation in the coal industry; equipment development for the production and use of rectifiers; the development of new accessories for measuring and controlling heat-engineering parameters; and the introduction of advanced methods into founding and die forging. No personalities are mentioned. References accompany some of the articles. There are 20 references: 16 Soviet, 2 German, 1 French, and 1 English.

AVAILABLE: Library of Congress

KOSTIN, L.G.

Determining forces needed for pulling strips through edge rolls. Trudy KhPI 21 Ser.met. no.4:133-139 '59. (MIRA 14:7)
(Rolling (Metalwork))

KOSTIN, L.G.

New methods for investigating the flow of metals. Trudy KhPI 21 Ser.met. no.4:131-132 '59. (MIRA 14:7)
(Deformations (Mechanics))

KUSHNER, KH. F.; KOSTIN, L. G.; DOBRYNINA, A. YA;
ZUBAREVA, L. A.; SALGANIK, M. G.; SAMOLETOV, A. I.

"The Use of Small Doses of Gamma-Radiation for the Improvement of Some Commercial Qualities of Hens"

Report Submitted for the Twelfth World's Poultry Congress, Sydney, Australia 10-18 Aug 1962

KOSTIN, L.G., inzh.; ZABRODSKIY, D.A., inzh.; ZORIN, S.V., inzh.; BUCHEK, L.T., inzh. SANZHAREVSKIY, O.G., inzh.

Rolling of fastening parts. Mashinostroenie no.6:67-68 N-D '64 (MIRA 18:2)

DERBAREMDIKER, M.I.; SEREBRENNIKOVA, K.L.; TERNOVSKIY, V.A.; Prinimali uchastiye: SHAROV, P.M.; NOVIKOV, L.Z.; LUR'YE, B.I.; PIS'MEN, M.K.; KARABIN, A.I. [deceased]; KOSTIN, L.I.; FROLOV, V.P.; MEDVEDEV, F.V.; GELIMKHANOV, S.G.; BONDAR', V.G.; TIMOFEYEV, P.I.; MININA, L.V.; ARBEKOV, F.F.; NIKOLAYEV, N.I.; YAROSLAV, T.Ye.; NUDEL'MAN, V.G.

Gasification of mazut under pressure in a steam-oxygen blast. Gaz. prom. 9 no.11:49-50 '64. (MIRA 17:12)

37245
S/148/62/000/003/010/011
E073/635

18.1150

AUTHORS: Belyatskaya, I.S., Kostin, L.K., Livshits, B.G.

TITLE: The influence of the K - state on the creep strength of nickel-chromium base alloys

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya, no. 3, 1962,135

TEXT: Earlier investigation of the authors of this paper showed that a nickel base alloy containing 15.8% Cr; 1.99% Ti; 1.78% Al; 5.22% W; 0.26% V; 3.89% Mo; 1.39% Fe; 0.05% B; 0.09% C had a time-to-failure twice as long after additional treatment for the K - state than the same specimens after standard heat treatment. However, no such an improvement in properties occurred in the nickel base alloy containing 14.55% Cr; 1.93% Ti; 1.93% Al; 5.52% W; 0.25% V; 3.40% Mo; 1.08% Fe; 0.005% B; 0.07%C. Two heats of the alloy ЭИ617 (EI 617) subjected to a heat treatment as proposed by the authors were also investigated for creep strength. The specimens of one of the heats were additionally treated to achieve the K - state and, after being tested for creep strength for a period twice as long as specimens subjected

Card 1/2

ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute).

SUBMITTED: January 1962.

Card 2/2

KETOV, A.N.; PESHKOVSKIY, V.V.; RUSTIN, I.P.

Investigating the interaction of cadmium oxide with various chlorination agents. Izv. vys. ucheb. zav.; tsvet. met. 7 no. 4: 107-111 '64 (MIRA 19:1)

1. Permskiy politekhnicheskiy institut, kafedra tekhnologii neorganicheskikh veshchestv.

KETOV, A.N.; PECHKOVSKIY, V.V.; KOSTIN, L.P.

Chlorination of magnesium oxide. Zhur. neorg. khim. 9 no.2: 467-469 F'64. (MIRA 17:2)

VRYSBISH, S.; ROCHKO, V.; VINOGRADOV, S., red.; KOSTIN, M., red.

[Long step toward the great goal, 1959-1965] Krupnyi shag k velikoi tseli, 1959-1965. Gospolitizdat, 1958. 1 v. (unpaged)
(Russia--Economic policy) (MIRA 12:2)

RUD', O.; KOSTIN, M.

Machine tool for molding "woodstone" slabs. Bud. mat. i konstr. 4 no.2:59-60 Mr-Ap '62. (MIRA 15:9)
(Floors)

CHIZHOV, D.G.: KOGTEV, G.I.; LAVRENENKO, K.D.; SPIRIN, S.A.; NEKRASOV, A.M.; IVANOV, M.I.; UFAYEV, M.Ya.; GRISHIN, I.K.; KOSTIN, M.F.; POPOV, V.A.; ZAGORODNIKOV, P.I.; FEDOTOV, P.N.; KAZ'MIN, A.V.; FOMICHEV, G.I.; YERSHOV, P.I.; MESHCHERYAKOV, V.I.; YEFREMOV, S.G.; LEVIN, I.S.; LETUCHEV, L.I.; BELKIN, M.N.; OBOLONKOV, M.I.; BATENIN, B.A.; BUR'YANOV, B.P.; KANATOV, P.I.; KOKOREV, S.V.

Nikolai Alekseevich Andreev. Elek. sta. 27 no.10:62 O '56.
(Andreev, Nikolai Alekseevich, 1897-1956) (MLRA 9:12)

KOSTIN, M.I., inzhener; ARVAN, M.B.

The MK-1-M multi-bucket trench cutting machine. Mekh.stroi.4 no.2:5-6 F '47. (MLRA 9:2)

1.Minstroydormash.
(Excavating machinery)

KOSTIN, M.I., inzhener.

The EM-18 multibucket excavator with lateral ladling.
Mekh.stroi. 4 no.3:15-16 Mr '47. (MLRA 9:2)

1.Mindstroydormash.
(Excavating machinery)

KOSTIN, M. I.

BORODACHEV, I.P., kandidat tekhnicheskikh nauk; GARBUZOV, Z.Ye., inzhener; redaktor; GORCKHOV, B.N. laureat Stalinskoy premii, inzhener; KOSTIN, M.I., inzhener; POPOV, N.I., inzhener; PRUSSAK, B.N., inzhener; SHIMANOVICH, S.V., inzhener; PETERS, Ye.R., kandidat tekhnicheskikh nauk, retsenzent; KRIMERMAN, M.N., inzhener, redaktor; MODEL', B.I., tekhnicheskiy redaktor.

[Machines for constructing irrigation systems] Mashiny dlia sooruzheniia orositel'nykh sistem. Pod red. Z.E.Garbuzova. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroitel'noi lit-ry, 1951. 236 p. (MLRA 9:1)
(Irrigation)

CHERESHNEV, V.A., inzhener; KOSTIN, M.I., inzhener.

Effective means for the mechanization of earthwork in railroad construction. Mekh.stroi. 10 no.8:9-11 Ag '53. (MLRA 6:8)
(Railroads--Earthwork) (Earth-moving machinery)

KOSTIN, M.I.; SHIMANOVICH, S.V.; VERZHITSKIY, A.M., inzhener, retsenzent; BOYKO, A.G., inzhener, redaktor; TIKHONOV, A.Ya., tekhnicheskiy redaktor.

[Excavating machinery; handbook] Ekskavatory; spravochnik. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry, 1954. 493 p. (MLRA 7:10)

(Excavating machinery)

KOSTIN, M.F.

USSR/Miscellaneous - Excavators, Design and construction

Card 1/1 : Pub. 70 - 4/9

Authors : Kostin, M. I., Engineer

Title : The E-151 hydraulic excavator with a 0.15 m^3 bucket

Periodical : Mekh. stroi. 3, 17-19, March 1954

Abstract : The design and construction of a hydraulically operated E-151 excavator with a 0.15 m^3 capacity bucket are described. The kinematic scheme of the excavator is presented. The technical characteristics of the E-151 construction excavator, mounted on a GAZ-63 truck, are listed. Drawings; illustrations.

Institution : .....

Submitted : .....